

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 March 2005 (17.03.2005)

PCT

(10) International Publication Number
WO 2005/024416 A1

(51) International Patent Classification⁷: **G01N 33/00**

(21) International Application Number:
PCT/US2004/028838

(22) International Filing Date:
7 September 2004 (07.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/500,785 5 September 2003 (05.09.2003) US

(71) Applicant and

(72) Inventor: **WANG, Binghe** [US/US]; 1222 Rosette Way,
Marietta, GA 30062 (US).

(72) Inventors: **GAO, Xingming**; 1234-310 Defoor Village
Court, Atlanta, GA 30318 (US). **YANG, Wenqian**; 206-1
Pinegate Circle, Chapel Hill, NC 27514 (US). **FANG, Hao**;
2319D Briarcliff Road, N.E., Atlanta, GA 30329 (US).
YAN, Jun; 4717 Roswell Road, N.E., Apt. K3, Atlanta,
GA 30342 (US).

(74) Agents: **VILLANUEVA, Lawrence, A.** et al.; Needle &
Rosenberg, P.C., Suite 1000, 999 Peachtree Street, Atlanta,
GA 30309-3915 (US).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: WATER SOLUBLE BORONIC ACID FLUORESCENT REPORTER COMPOUNDS AND METHODS OF USE THEREOF

(57) Abstract: Described herein are boronic acid fluorescent compounds and methods of use thereof.



WO 2005/024416 A1